



PTO/SB/08a (06-03)

Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

Complete if Known**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 4

Application Number	<u>10 615 756</u>
Filing Date	<u>07/09/2003</u>
First Named Inventor	<u>Barry B. Cavill</u>
Art Unit	
Examiner Name	
Attorney Docket Number	<u>2003-0066.02</u>

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
<u>W</u>	<u>—</u>	US- 4809297	02/28/1989	Polansky et al.	/
<u>W</u>	<u>—</u>	US- 4881129	11/14/1989	Mitsuhashi	
<u>W</u>	<u>—</u>	US- 4922546	05/01/1990	Takahashi et al	
<u>W</u>	<u>—</u>	US- 4933770	06/12/1990	DeSpain	
<u>W</u>	<u>—</u>	US- 4956876	09/11/1990	Koshiishi	
<u>W</u>	<u>—</u>	US- 4977609	12/11/1990	McClure	
<u>W</u>	<u>—</u>	US- 4991201	02/05/1991	Tseng	
<u>W</u>	<u>—</u>	US- 5237429	08/17/1993	Zuiss et al.	
<u>W</u>	<u>—</u>	US- 5247566	09/21/1993	Hiramatsu	
<u>W</u>	<u>—</u>	US- 5247575	09/21/1993	Sprague et al.	
<u>W</u>	<u>—</u>	US- 5790268	08/04/1998	Chomet	
<u>W</u>	<u>—</u>	US- 5263078	11/16/1993	Takahashi et al	
<u>W</u>	<u>—</u>	US- 5282238	01/25/1994	Berland	
<u>W</u>	<u>—</u>	US- 5299024	03/29/1994	Kafri	
<u>W</u>	<u>—</u>	US- 5335276	08/02/1994	Thompson et al.	
<u>W</u>	<u>—</u>	US- 5416828	05/16/1995	Hiramatsu et al.	
<u>W</u>	<u>—</u>	US- 5426511	06/20/1995	Nagatomo	
<u>W</u>	<u>—</u>	US- 5450472	09/12/1995	Brax	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner
Signature**WILLIAM CUMMING**Date
Considered7/29/06

*EXAMINER: Initial if reference considered. **PRIMARY EXAMINER** is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.
Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 4

PTO/SB/08a (05-03)

Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Complete if Known

Application Number	
Filing Date	07/09/2003
First Named Inventor	Barry R. Cavill
Art Unit	
Examiner Name	
Attorney Docket Number	2003-0066.02

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/	—	US- 5463477	10/31/1995	Kakizaki	
/	—	US- 5479475	12/26/1995	Grob et al.	
/	—	US- 5479479	12/26/1995	Braitberg et al.	
/	—	US- 5487175	01/23/1996	Bayley et al.	
/	—	US- 5509050	04/16/1996	Berland	
/	—	US- 5574773	11/12/1996	Grob et al.	
/	—	US- 5590406	12/31/1996	Bayley et al.	
/	—	US- 5608545	03/04/1997	Kagawa	
/	—	US- 5752199	05/12/1998	Scott	
/	—	US- 5771467	06/23/1998	Sato	
/	—	US- 5802471	09/01/1998	Sawai et al.	
/	—	US- 5864763	01/26/1999	Leung et al.	
/	—	US- 5870679	02/09/1999	Ezumi	
/	—	US- 5883723	03/16/1999	Sakata	
/	—	US- 5915002	06/22/1999	Shimosako	
/	—	US- 5920402	07/06/1999	Scott	
/	—	US- 5920825	07/06/1999	Patel et al.	
/	—	US- 5953647	09/14/1999	Patel et al	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner
Signature

WILLIAM CUMMINGS
PRIMARY EXAMINER

Date
Considered

7/24/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.
Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete If Known

Application Number	
Filing Date	07/09/2003
First Named Inventor	Barry R. Cavill
Art Unit	
Examiner Name	
Attorney Docket Number	2003-0066.02

Sheet 3 of 4

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
<i>W</i>	—	US- 5966669	10/12/1999	Kenmochi et al.	
<i>W</i>	—	US- 6035205	03/07/2000	Han	
<i>W</i>	—	US- 6011968	01/04/2000	Patel et al	
<i>W</i>	—	US- 6075792	06/13/2000	Ozluturk	
<i>W</i>	—	US- 6057943	05/02/2000	Kweon et al.	
<i>W</i>	—	US- 6124949	09/26/2000	West et al.	
<i>W</i>	—	US- 6115142	09/05/2000	Leung	
<i>W</i>	—	US- 6157846	12/05/2000	Manning et al.	
<i>W</i>	—	US- 6147978	11/14/2000	John et al.	
<i>W</i>	—	US- 6144464	11/07/2000	Rupp et al.	
<i>W</i>	—	US- 6181954	01/30/2001	Monroe et al.	
<i>W</i>	—	US- 6161007	12/12/2000	McCutcheon et al.	
<i>W</i>	—	US- 6400957	06/04/2002	Rodrigues et al.	
<i>W</i>	—	US- 6281988	08/02/2001	Leung	
<i>W</i>	—	US- 6434125	08/13/2002	Marks et al	
<i>W</i>	—	US- 6459907	10/01/2002	Feli	
<i>W</i>	—	US- 2001/0012339	08/09/2001	Frazier et al.	
<i>W</i>	—	US- 2001/0019964	09/06/2001	Shimizu	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
Signature

WILLIAM CUMMING

Date
Considered

7/24/06

*EXAMINER: Initial if reference considered, otherwise not. Information is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

PTO/SB/08a (05-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 4 of 4

Application Number	
Filing Date	07/09/2003
First Named Inventor	Barry R. Cavill
Art Unit	
Examiner Name	
Attorney Docket Number	2003-0066.02

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
W	—	US- 2002/0164953	11/07/2002	Curtis	
W	—	US- 2003/0038963	02/27/2003	Yamaguchi	
W	—	US- 2002/0169002	11/14/2002	Imbrie et al.	
W	—	US- 2003/002073	01/02/2003	Berkema et al.	
W	—	US- 2003/0003957	01/02/2003	Berkema et al.	
W	—	US- 2003/0007176	01/09/2003	Takamine	
W	—	US- 2003/0054859	03/20/2003	Goto	
W	—	US- 2003/0045236	03/06/2003	Chang et al	
W	—	US- 2003/0054766	03/20/2003	Clough et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature

WILLIAM CUMMING
PRIMARY EXAMINER

Date Considered

7/24/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Institute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	
Filing Date	07/09/2003
First Named Inventor	Barry R. Cavill
Art Unit	
Examiner Name	
Attorney Docket Number	2003-0066.02

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>WJ</i>	-	NO DATE LISTED TELULAR, "Phonecell SX5E," Fixed Wireless Terminal, p. 1-2, (2002).	
<i>WJ</i>	-	NO DATE LISTED TELULAR, "Phonecell SX4E - for GSM 900 or GSM 1800," p. 1-2, (2001).	

Examiner
Signature

WILLIAM CUMMING
PRIMARY EXAMINER

Date
Considered

7/24/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9189 and select option 2.